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Herrn Dr. rer. nat. habil. Norbert Schwarzer  
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Ihre Zeichen/Nachricht vom

Unsere Zeichen

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Datum 05.03.2013

Email <n.schwarzer@siomec.de>  
vom 04.03.2013

Dear Dr. Schwarzer,  
we would like to express our strong interest on the project:

Proposal full title: Pre-standardisation of incremental FIB micro-milling for intrinsic stress evaluation at the sub-micron scale  
Proposal acronym: ISTRESS

Duration: 36 months

Type of funding scheme: LARGE-SCALE INTEGRATING COLLABORATIVE PROJECTS

FP7-NMP-2013-LARGE-7

Topic Reference Topic Description

CP-IP NMP.2013.1.4-2

Metrology research for the development and validation of design rules for engineering of nanostructured and nano-enabled materials and devices

The aim for Miele & Cie. KG is to strengthen our competitiveness in the worldwide market in the range of household goods. Lower abrasiveness and stronger decorative surfaces against wear are of high interest for us. In this context, we have a need to find suitable methods concerning describing viscoelastic polymeric Materials like >ABS<, >PET<, >PLA<, and we raise the question whether that project could treat these or comparable materials. Especially the coated vs. the uncoated polymers are of concern, to understand the effect of tension distribution on the surface of such specimens, as well as the elastic-plastic response of the bulk. Also a pre-treatment with cleaning agents, leading to variations of the adhesion of the coating, and the influence of the class of the coating as well (sol/gel - nanocoatings, PVD, Laquers) are of the highest interest for Miele & Cie. KG. Furthermore, we believe that there could be a benefit, if this project could be linked to the IND05 "Meprovisc" project as well.

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To take part, it requires for Miele & Cie. KG the availability to be a member of the industry dominated advisory board. We would like to have a direct influence on the directions of the investigations. On the other hand, it should be possible for Miele & Cie. KG to deliver a quantity of planar specimens for the investigations.

We hope, that we help to start this project with this letter of support.

Best regards,

Dipl. Ing. Stephan Schmidt

Head of the Rubber and Plastics Laboratory

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